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ABSTRACT

The present documents offers a 78-item annotated bibliography on the topic of nontraditional studies and special degree programs. The bibliography grew out of an interest in published materials on various ways of meeting the special learning needs of adults. Materials included are essays, speeches, magazine articles, and reports of persons who have extensively researched the field of special degree programs. (HS)

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THE OPEN UNIVERSITY, THE EXTERNAL DEGREE and NON-TRADITIONAL STUDY

A Selected Annotated Bibliography

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'OPEN UNIVERSITY' AND RELATED MATTERS – TOPICS OF LIVELY INTEREST

The educational world continues to display vigorous interest in concepts of higher education beyond the traditional modes. It is therefore not surprising that a great deal of information and commentary on such topics as the open university, external degrees and non traditional study have appeared in books, magazines, newspapers, reports, newsletters and other media over recent months.

As a specialized institution of higher learning and research, The American College of Life Underwriters over its 45-year history has been viewed by many educators as embodying the maior hallmarks of an open university. In its programs of study leading to the professional designation of Chartered Life Underwriter (C.L.U.), the College serves some 60,000 students across the nation.

This bibliography grew out of the College's own considerable and continuing interest in published materials on various ways of meeting the special learning needs of adults.

We believe there is real merit in thorough review and exchange of thinking on future directions for higher education and it is in this spirit that we are pleased to share this compilation with others.

Davis W. Gregg
President

Bryn Mawr, Pennsylvania

Abbott, C. M. "Graduate Student Looks at the New Doctor of Arts Degree," AAUP BULLETIN, Vol. 57 (September, 1971), pp. 364-367. Washington, D.C. 20036.

Critiques concept of the development of a teaching doctorate, the Doctorate of Arts Degree. Author presents arguments against the Doctor of Arts Degree.

Adams, Jacqueline, J. "Britain's Open University Nearing End of Its First Year," CHRONICLE OF HIGHER EDUCATION, Vol. VI, No. 10 (November 29, 1971), p. 4.

Author evaluates some facts and statistics on the first term of Britain's Open University.

AMERICAN ACADEMY OF ARTS AND SCIENCES. "Report of the Assembly on University Goals and Governance," 1971. The American Academy of Arts and Sciences, 7 Linden Street, Harvard University, Cambridge, Massachusetts 02138.

Critiqued below, under Assembly on University Goals and Governance.

Assembly on University Goals and Governance. "Report of the Assembly on University Goals and Governance," CHRONICLE OF HIGHER EDUCATION, Vol. V, No. 15 (1971), pp. 5, 6, 7, 8. 1717 Massachusetts Avenue, N.W., Washington, D.C. 20036.

The Assembly was founded by the American Academy of Arts and Sciences at Harvard University, Cambridge, Massachusetts in 1969 to stimulate educational reform and this important report is the first one written since the Academy was established. The report contains 85 theses which are intended to present goals to stimulate reform in higher education. The suggested goals include establishing the option of an interim period of work, service, or independent study during college for students. The report indicates that higher education should be provided for adults who want to keep abreast in their fields, find a new career, or obtain further education. The Assembly also indicated, as a goal, the establishment of national and institutional examinations to enable a student to be examined for credit for knowledge acquired through experience and independent study so that he could continue higher education at his competency level. Other suggested goals for innovation include independent study, tutorials for credit, and the use of new technology in teaching. The Assembly also suggests that individuals at the height of their careers be encouraged to teach in academic institutions to lend perspective.

Babbott, Edward F. "Postponing College: Alternatives for an Interim Year," COLLEGE BOARD REVIEW, No. 80 (Summer, 1971), pp. 21-24. Princeton, New Jersey 08540.

Describes nontraditional study or work programs, or service opportunities for college-age students not wishing to be registered in a traditional college program.

Baily, Stephen K. "Teacher Centers: Another British Idea Worth Importing," PHI DELTA KAPPAN (November, 1971), pp. 146-149. Bloomington, Indiana.

Teachers at British Teachers' Centers review curriculum and exchange teaching experiences with a view to innovation and reform by those directly responsible for teaching. Each center is organized locally. Teachers' Centers provide exhibits of new text books, programmed education and audio-visual aids. The Schools Council, an independent body composed of teachers, is responsible for research and development in England and Wales, and is available for guidance to the Teachers' Centers.

Bern, H.A. "Universities Without Campuses: Bibliography of Educational Leadership," ASSOCIATION FOR SUPERVISION AND CURRICULUM DEVELOPMENT (January, 1971). Washington, D.C.

Boyer, B. L. and G. C. Keller. "Big Move to Non-Campus Colleges," SATURDAY REVIEW (July 17, 1971), p. 9+. New York, New York.

Authors are concerned with provision of educational facilities which will take into account the financial crises of rising costs in education, the tremendous creative energy of today's youth, and the return to college of adults. The authors maintain that intellectual competence is the aim of college education and that off-campus study will solve the educational needs of many. The authors are concerned with quality control and the method of determining credit for independent study. The article mentions "Afloat College Education," the program of the U. S. Navy. In this program, professors are flown to ships in port and credit is given by examination for on-board reading and filmed courses.

BUSINESS WEEK. "Bringing Graduate School to the Plant" (January 10, 1970), pp. 64,65.

TAGAR (Association for Graduate Education and Research) provides a microwave TV network to tap into courses at nearby universities and broadcast them to North Texas community plants. Fourteen hundred graduate students are in the advanced degree program. Cost of transmitting studios, electronic classrooms, and cost of broadcasting can average $1,000 per student to the student's participating company.

BUSINESS WEEK. "Higher Learning Moves Off the Campus" (January 16, 1971), pp. 78, 79.

Reviews the spectrum of new nonclassroom programs for credit and/or degree.

Carnegie Commission on Higher Education. LESS TIME, MORE OPTIONS: EDUCATION BEYOND HIGH SCHOOL. Hightstown, New Jersey: McGraw-Hill Publishing Company, January, 1971. 45 pp.

This is the first report of the Carnegie Commission on Higher Education. It is a valuable, well organized, research report proposing reforms in postsecondary education. The Commission recommends that students be encouraged to obtain service and work experience, thereby expanding their postsecondary educational experience. It recommends that a variety of educational options be made available. The report proposes extensive changes in degree structures. The Commission indicates the importance of research in testing to create tests which will measure competence. Includes detailed appendices.

Christ-Janer, A. F. "CEEB seeks Non-Traditional Alternatives for Education: External Degree Program," COLLEGE AND UNIVERSITY BUSINESS (October, 1971), pp. 56-57. Hightstown, New Jersey 08520.

Discusses the need for major educational reform to provide for greater accessibility and opportunity for higher education. Mr. Christ-Janer indicates it should be achieved through a coherent philosophy to bring unity to the educational reform. The article suggests thoughtful care in devising programs.

Christodoulu, A. "Open University and Its Instructional System," EDUCATION CANADA (September, 1971), pp. 32-35.

Mr. Christodoulu, as Secretary of the United Kingdom's "Open University," describes in considerable detail the Open University's unique instructional system for adult learners. He describes learning resources including basic materials, part-time class tutors, multi-media equipment, study centers, a data bank, and summer school. Cost advantages of the system are enumerated. Also discussed are plans to market in other countries the learning materials developed for the Open University of Great Britain. Future plans for a graduate degree program are indicated

CHRONICLE OF HIGHER EDUCATION. "Recent Foundation Grants," Vol. V. No. 15 (January 25, 1971), p. 7. Washington, D.C.

Carnegie Commission announces a grant of $140,000 to the College Entrance Examination Board and the Educational Testing Service to Establish a commission on non-traditional study.

COLLEGE BOARD REVIEW. "News of the College Board," No. 81 (Fall, 1971), p. 3.

Article announces that the Office of External Degree Plans, jointly sponsored by ETS and CEEB is operational with John Summerskill as Director.

College Entrance Examination Board. PREPARATION FOR THE COLLEGE LEVEL EXAMINATION PROGRAM (CLEP). New York: Henry Regnery Company Publishers, 1971. $5.95 (paper)

Book presents extensive sample study material and test questions in all fields of study covered in the CLEP examination for credit.

College Entrance Examination Board, 888 Seventh Avenue, New York 10019. "Newsletter" (August, 1971).

Three-page newsletter describes the function and operation of the Office of External Degree Programs (OEDP).

Commission on Non-Traditional Study. NEW DIMENSIONS FOR THE LEARNER. New York: Commission on Non-Traditional Study, 1971. 15 pp. (paper).

This is a scholarly, concise, in depth evaluation and report to the public of the findings of the first six months of activity of the Commission on Non-Traditional Study. It concentrates on an examination of the concepts, accessibility, means of providing recognition for work completed (including the external degree), and the problems of financing non-traditional study. It emphasizes the extent of interest in non-traditional study and amount of research necessary to evaluate non-traditional study. Lists members of the Commission and their affiliations.

Crichton, I. "College of the Second Chance," SCHOOL AND SOCIETY, Vol. 99 (November, 1971), pp. 443-445. 1860 Broadway, New York, New York 10023.

Describes small Ruskin College, founded in 1899 at Oxford to provide adult education through lectures, discussions and tutorials for people (average age 30) who had to go straight to work at age 14-15. The diploma is awarded by examination at the end of two years and qualifies for university entrance. Article lists famous Ruskin graduates, including students from overseas.

Cross, K. Patricia. BEYOND THE OPEN DOOR. San Francisco: Jossey-Bass, Inc., 1971.

Patricia Cross describes new learning experiences.

Darrell, Norris. "The Role of the Universities in Continuing Professional Education," five-part series, CONTINUING LEGAL EDUCATION REVIEW OF THE AMERICAN LAW INSTITUTE AND AMERICAN BAR ASSOCIATION, Nos. 45-50 (October 29, November 5, 12, 19, 26, 1971). 4025 Chestnut Street, Philadelphia, Pennsylvania.

Articles consider the importance of continuing legal education for the lawyer and the means of obtaining instruction. Discusses the idea that a professional practitioner should be required to continue his education as a condition of continuing his license to practice.

Doran, B. "External Degree Program: Credits without Classes," COLLEGE AND UNIVERSITY BUSINESS (October, 1971), pp. 58-60.

Discusses the need to provide adults with a flexible, independent, college-level study program which will award a degree by examination rather than by residential study.

Driscoll, William J. "A Rationale for Independent Study Degree Programs," SCHOOL AND SOCIETY, Vol. 99/2336 (November, 1971), pp. 411-413.

The author presents arguments in favor of granting credit toward a degree for indepent study.

Drucker, Peter F. "What We Already Know about American Education Tomorrow," The William T. Beadles Lecture, THE AMERICAN COLLEGE OF LIFE UNDERWRITERS (September 14, 1971).

Dr. Drucker's lecture about new directions in American education was presented as the Beadles Lecture on the campus of the American College and has been published by the College.

Dubin, Robert and Taveggia, T. C. "The Teaching-Learning Paradox: A Comparative Analysis of College Teaching Methods," CENTER FOR THE STUDY OF EDUCATIONAL ADMINISTRATION, 1968. University of Oregon, Eugene, Oregon. 78 pp.

Results of studying methods of learning indicate that a student learns as well through independent study as he does through classroom instruction.

Dunham, E. A. "Prescription for Higher Education; the Doctor of Arts Degree," JOURNAL OF HIGHER EDUCATION, Vol. 25 (1970). Columbus, Ohio 43210.

Durnall, E. J. "University Extension and Accreditation," SCHOOL AND SOCIETY (February, 1971), pp. 87, 88.

Durnall, as Director of Continuing Education at the University of New Hampshire, discusses the need for reform in the accrediting procedures for higher education.

Eckstein, Max. "The Open University in Great Britain," unpublished paper. 22 pp. Queens College, C.U.N.Y., Flushing, New York 11367.

The paper examines the history of the Open University in Britain, its admissions policies, the course materials, and is an evaluation of the program. The paper is a critical report of the Open University. It contains one of the few references examined which mentions the Robbins Report on Higher Education.

EDUCATIONAL BROADCASTING INTERNATIONAL. "Science and Technology Courses at the Open University," Vol. 5 (June, 1971), pp. 92-94. Wrexham, North Wales, British Isles.

Article describes the science course which integrates the concepts of the major sciences using all the learning resources available to the Open University. Of particular interest, is the fact that the student returns 32 assignments on special paper which can be marked by the computer to give the University an evaluation of each student's work. In addition, the computer will indicate any section of the work which might be giving a block of students trouble. There is also a discussion of a proposed foundation course, "Technology: People and the Technological Problems with which They Live."

EDUCATIONAL TECHNOLOGY. "Communications Terminals Provide Lessons at Britain's Open University," Vol. XI, No. 10 (October, 1971), p. 16+. Englewood Cliffs, New Jersey 07632.

EDUCATION TRAINING MARKET REPORT. "College Expansion in New Jersey" (February 1, 1971). Washington, D.C.

Article discusses the establishment of an "open college" in New Jersey, which permits students to take an undergraduate program without formal attendance at an institution. Ralph A. Dungan is Department Director.

Ehrich, T. L. "Off Campus U," WALL STREET JOURNAL, Vol. CLXXIX (February 2, 1972), p. 1, 19. Chicopee, Massachusetts.

Lead article by staff reporter Ehrich presents an education activity profile of a California plant manager engaged in obtaining an "external degree" from New York Institute of Technology. The reporter also indicates other operational programs. He notes the cost savings and emphasizes the flexibility of the programs. Funding of the programs, such as the $487,000 grant by the Department of Health, Education and Welfare to the "University Without Walls" is mentioned.

EMPIRE STATE COLLEGE CATALOG 1971. Saratoga Springs, New York: Empire State College. 52 pp. (paper).

Empire State College is the coordinating center for State University of New York program which by 1973 will comprise 20 nonresidential centers. Included in the catalog are in depth explanations of planned programs, resources, processes, the contract, basic modes, degrees, evaluations, foreign study, transfer, mentors, faculty and cost to the student.

ETS DEVELOPMENTS. "CLEP Goes on TV: Earns 'C.L.I.O.' Award," Vol. 19, No. 1 (Fall, 1971), p. 3. Princeton, New Jersey 08540.

Discusses the CLEP program as it has been presented on TV.

Eurich, Nell and Schwenkmeyer, Barry. GREAT BRITAIN'S OPEN UNIVERSITY: FIRST CHANCE, SECOND CHANCE OR LAST CHANCE? New York: Academy for Educational Development, August, 1971. Paper No. 5, 31 pp.

Publication is a significant contribution as a careful, comprehensive examination of the operation of Great Britain's Open University. Examines development of course material, grading of work, faculty, funding, quality of the education, testing, educational media, and cost of education.

EVENING BULLETIN. "Britain's Open University – To College by TV" (January 9, 1971). Philadelphia, Pa. Editorial research report.

Ferrin, Richard I. A DECADE OF CHANGE IN FREE ACCESS HIGHER EDUCATION. Princeton, New Jersey: College Entrance Examination Board. $1.50.

Gould, Samuel B. "The Birth of a Non-Traditional Tradition," EDUCATIONAL TESTING SERVICE, Princeton, New Jersey 08540. Cassett, 1971.

Haigh, G. "Open University Summer School," TIMES EDUCATIONAL SUPPLEMENT, No. 2938 (September 10, 1971), p. 4. London, England.

Gives a brief description of student activity at summer resident center.

Hawkridge, David G. "The Open University's Instructional System," unpublished paper, Walton Hall, England, 1970.

Dr. Hawkridge, Professor of Applied Educational Sciences and Director of the Institute of Educational Technology of the Open University, Walton, England, presented the paper at the International Audio-Visual Aids Conference and Exhibition (July 20-23, 1970, London, England). The paper describes in detail, the learning resources of the Open University. The paper mentions the computer data bank at the Open University which will analyze information from students, tutors, and counselors with a view to continuous improvement of the system.

Hawkridge, David G. "Science for the Thousands: The Open University of Great Britain," unpublished paper presented at annual conference of the American Association for the Advancement of Science, Chicago (December 27-30, 1970).

The description in the paper of the courses of instruction at the Open University is particularly interesting because it is presented directly by Dr. Hawkridge.

Jacobson, Robert L. "New York to Award Degree for Study Off Campus," CHRONICLE OF HIGHER EDUCATION, Vol. V, No. 20 (February 22, 1971), pp. 1, 2.

Article presents a brief outline of four proposals for nonresident degrees.

Jacobson, Robert L. "New Ways of Learning Seen Altering Many Collegiate Traditions," CHRONICLE OF HIGHER EDUCATION, Vol. VI, No. 10 (November 29, 1971), p. 4.

This is a report on the Washington, D.C. meeting of the Commission on Non-Traditional Study, November meeting (the third meeting of the Commission in 1971).

Jacobson, Robert L. "Southern Accrediting Unit Sets Standards for Off-Campus Degree Programs," CHRONICLE OF HIGHER EDUCATION, Vol. VI, No. 11 (December 6, 1971), p. 1.

This important article examines the accrediting of external degree programs. The Southern Association of Colleges and Schools is the first accrediting body to set standards for recognition of external degree programs.

James, The Right Honorable Lord James of Rusholme. "The James Report," Heslington, England, January 25, 1972.

This is a report on teacher training by the Right Honorable Lord James of Rusholme, Vice Chancellor, University of York, Heslington, England. It includes recommendations for the training of teachers needed for open university and similar educational experiences.

James, W. "Open University: A New Phenomenon," EDUCATIONAL TECHNOLOGY, Vol. XI, No. 7 (1971), pp. 32-33. Englewood Cliffs, New Jersey.

Knauss, Zane. "The Talk 'n Tube MBA at the University of South Carolina," EDUCATIONAL TELEVISION, Vol. 3. No. 12 (December, 1971), pp. 9-11. Ridgefield, Connecticut 06877.

Knowles, Asa and Associates. HANDBOOK OF COOPERATIVE EDUCATION. San Francisco: Jossey-Bass, Inc., 1971.

Book is concerned with cooperative education and the introduction of off-campus experience into the regular curriculum.

Lester, R. I. "Britain's Open University as the Second Chance," AMERICAN EDUCATION (August, 1971), pp. 7-11.

Lucas, Vane B. "Revolution – Putting the Pieces Together," TRAINING IN BUSINESS AND INDUSTRY, Vol. 7, No. 9 (September, 1970), pp. 29-33. New York, New York.

A new education building at The American College of Life Underwriters in Bryn Mawr, Pennsylvania will provide for experimentation and validation of innovative learning experiences for adults.

Makins, V. "American Looks at the Open University," TIMES EDUCATIONAL SUPPLEMENT (London), No. 2922 (May 21, 1971), p. 6.

Visit of George Hanford, Executive Vice President of College Entrance Examination Board to the Open University leads TIMES EDUCATIONAL SUPPLEMENT to report on the activities of the CEEB with particular reference to the Board's interest in nontraditional study and to improvements in testing programs.

Malcolm, Andrew. "Home Study for Degree Supported," NEW YORK TIMES (October 20, 1970).

This is the first public announcement by Alan Pifer, President of Carnegie Corporation, of the Corporation's endorsement of the program for the external degree.

Malcolm, Andrew. "College Degree Reforms Asked by Carnegie Report," NEW YORK TIMES (November 24, 1970).

This is the press release for the document of the Carnegie Commission on Higher Education, "Less Time More Options." The Carnegie Commission Report is published by McGraw-Hill. It describes a variety of proposed new degrees.

Malcom, Andrew. "Minnesota College With No Campus, Classrooms or Grades Opens," NEW YORK TIMES (February 4, 1972), p. 27.

Minnesota Metropolitan State College opened February 1, 1972, designed for adult students, ages 21 and over, to earn degrees through independent study and examinations. It is compared to the High School Equivalency Test concept.

Marais, G. "Management Training by Teletuition," lecture delivered at the 3rd International Productivity Congress – Management in the Future, Vienna, Hofburg (October 28-30, 1970), published by the University of South Africa, Pretoria, South Africa.

Professor Marais is Director of the School of Business Leadership (SBL) and has written a carefully detailed paper outlining management training by television in South Africa. The paper describes in detail the School of Business Leadership. Also covered in the paper is the Master in Business Leadership, the Advanced Executive Programme and the Doctorale Programme of the University of South Africa. Methods and experience of adult students are included in the study.

MBA MAGAZINE. "The Closed Loop," Vol. 6, No. 1 (October, 1971), pp. 9-10.

MBA-ETV Program of University of South Carolina is the program conducted by television and telephone conference primarily for executives and traveling salesmen who cannot attend regular classes.

McMurrin, Sterling M., Chairman, Commission on Instructional Technology. "To Improve Learning," Commission on Instructional Technology, 247 pp., August, 1969. 1424 Sixteenth Street, N.W., Suite 203, Washington, D.C. 20036.

This is a scholarly and comprehensive report which focuses on the potential use of technology to improve the entire gamut of education. The Commission staff was provided by the Academy for Educational Development with Sidney G. Tickton as Executive Director. Sterling M. McMurrin, the Chairman of the Commission on Instructional Technology, transmitted the report to the Honorable Robert H. Finch who was at that time, Secretary of Health, Education and Welfare.

NEWSWEEK. "Everyman's Alma Mater" (January 25, 1971), pp. 43, 55.

Britain's Open University is mentioned and some description of it is given. The External Degree Program of College Board is described.

Nyquist, Ewald B. Inauguration Address as Commissioner of Education for the State of New York. Albany, October, 1970.

Pifer, Alan. "Is it Time for an External Degree?" COLLEGE BOARD REVIEW, No. 78 (Winter, 1970-71), pp. 5-10. Princeton, New Jersey 08540.

The article examines the external degree and the open university in this country and foreign countries. It is an early exploratory article of the ideas promulgated. Background of the involvement of ETS and CEEB in the program is explained.

Policy Institute of the Syracuse University Research Corporation. NEWSLETTER – EXTERNAL DEGREE PROGRAM.

Vol. 1, No. 1 (July, 1971). Describes the Policy Institute, the external degree project funded by Ford Foundation. Describes what an external degree is, what the Policy Institute's role is, how an external degree can be earned, how the candidate proceeds for an external degree, when the external degree will be available and the cost to the student.

Vol. 1, No. 2 (August, 1971). The letter is concerned with space and facilities available for external degree program in five county area of central New York State. Preliminary review of learning facility resources is given.

Vol. 1, No. 3 (September, 1971). At the Minnowbrook Conference faculty from 12 colleges and universities in the five county area of central New York State met August 8-11, 1971, to discuss and consider the external degree. They evaluated independent study materials, both old and new. The conference made evaluations with regard to the study materials. They made plans for an external degree planning consortium. The newsletter described the Empire State College and the State Education program for the state of New York, which is separate from Empire State College.

Vol. 1, No. 4 (October, 1971). "External Degree: Design Stage Only." Newsletter indicates experimental pilot program for external degree in 1972, but it will be well into 1973 before the Business Administration external degree program leading toward Regent's Baccalaureate degree will be fully operational. Goes on to discuss the talent bank and the idea of developing talent for administering and teaching in the external degree program. Uses a chart, "Human Instructional Services," in developing and evaluating the best possible teacher talent. The entire newsletter Number 4 is devoted to developing teacher talent for the external degree program.

Vol. 1, No. 5 (November, 1971). Great Britain's Council for National Academic Award has the power to grant and confer degrees, diplomas and certificates. This power augmented the open university program in Great Britain. The CNAA Covers the whole gamut of higher education. It is proposed that the system in Great Britain be studied in determining awarding of degrees in the United States. The letter is concerned with education courses in business and industry. One of the first external degree programs is taken in business administration.

Rahmlow, Harold F. "R and D for Adult Learning," AUDIOVISUAL INSTRUCTION, Vol. 16, No. 4 (April, 1971), pp. 55-56.

Harold Rahmlow is Executive Director of the Zimmerman Adult Learning Laboratory at the American College of Life Underwriters in Bryn Mawr, Pennsylvania. He describes the multi-media facility for adult learning research and development. The laboratory is the first to provide an experimental facility of this type where adults in the professions and vocations will be provided with learning resources to be used in career study.

Read, Gerald H. "The Open University in Britain," PHI DELTA KAPPAN (December, 1971), pp. 230-233.

Article gives some political history of the Open University. It explains admissions policy and emphasizes that it is designed to teach broad ideas, concepts and critical thinking rather than specialized study in one field. It notes that the British Broadcasting Corporation is accountable in the learning system and that comprehensive study guides are provided. Article provides detail on methods of preparing and presenting material. Article also emphasizes importance of use of refresher courses for individuals not wanting to register for a degree. It mentions that 1,600 top college officials attending American Council on Education Annual Meeting were interested in studying Britain's Open University.

Report of the President's Committee on the Future University of Massachusetts," paper (December, 1971). 127 pp. Boston, Massachusetts 02109.

The report includes the idea of cooperating with a program called University Without Walls and a discussion of adapting England's Open University program into the University of Massachusetts system. The report forecasts plans by the University of Massachusetts for off-campus

study to provide college- level work for those not planning the conventional 4-year college. The University of Massachusetts plans to provide continuing education for adults of all ages. The paper reports the findings of long-range plans to provide for higher education in the University of Massachusetts system through the year 1980.

Russell, C. and F. W. Kellaway. "Open University: Preliminary Progress Report: Humanities and Mathematics," TIMES EDUCATIONAL SUPPLEMENT (London), Vol. 99, No. 2920 (May 7, 1971), pp. 17, 18.

Article is a critique by two authors. Conrad Russell discusses the Humanities Program, and F. W. Kellaway discusses the Mathematics Program at the Open University. Conrad Russell feels the Open University correspondence work is not within the depth of regular university work, but that the results among the students so far does indicate success of the concept. He feels study material is too broad and based at too low a level. However, he indicates approval of visual aid material. F. W. Kellaway evaluates the Mathematics Program as successful for students of a very broad background, many of whom were unfamiliar with modern mathematical terms.

SATURDAY REVIEW. "Wingate Prep: Incipient Miracle" (December 18, 1971), pp. 62-67. New York, New York 10017.

Brooklyn's Wingate Prep students receive credit for independent studies in courses attended in industry and other off-campus organizations.

SCHOOL AND SOCIETY. "College Credits for Life Experiences" (Summer, 1971), pp. 271-272. New York, New York.

Special Baccalaureate degree for adults at Brooklyn College gives adults credit for life experiences. Program launched in Brooklyn College in 1953 by Bernard Stern, coordinator of the program.

SCHOOL AND SOCIETY. "New Professional Studies Degrees" (October, 1971), pp. 330-332.

SCIENCE. "Open University: Breakthrough for Britain" (November 12, 1971), pp. 675, 676, 677, 678.

Article contains comprehensive and clear description of Great Britain's Open University at Walton Hall, Walton near Milton Keynes, England. Includes comment on site, quality control, summer session, foundation and advanced courses, and team teaching.

Semas, Philip W. " 'Open University' Programs Gain Favor in United States," CHRONICLE OF HIGHER EDUCATION, Vol. VI, No. 10 (November 29, 1971), pp. 1, 5.

Examines scope and progress of developed plans and programs for the external degree to date.

Sharon, Amiel T. "Adult Academic Achievement in Relation to Formal Education and Age," ADULT EDUCATION, Vol. XXI, No. 4 (Summer, 1971), pp. 231-237. Washington, D.C. 20036.

In this journal article, Dr. Sharon uses charts and graphs to illustrate his conclusions about the relative level of performance of a sample group who took the General Examinations of the College Level Examination Program (CLEP) with regard to previous formal education and age. His study sample consisted of the test results of 43,877 military personnel tested by the United States Armed Forces Institute.

Sharon, Amiel T. COLLEGE CREDIT FOR OFF CAMPUS STUDY. Washington, D.C.: ERIC Clearinghouse on Higher Education, 1971. George Washington University, Washington, D.C. 20006.

Spurr, Stephen H. "Academic Degree Structures: Innovative Approaches," a report prepared for Carnegie Commission on Higher Education (McGraw-Hill), 1970, 213 pp.

Troutt, Roy. SPECIAL DEGREE PROGRAMS FOR ADULTS EXPLORING NON-TRADITIONAL DEGREE PROGRAMS IN HIGHER EDUCATION. Iowa City, Iowa: American College Testing Program, 1971. ACT Special Report Four. 69 pp.

In a comprehensive examination of special degree programs, Mr. Troutt includes carefully documented references to the development of the concept of external degrees in the United States. He refers to educators involved, to important trend setting conferences, and to the audiences for which special degree programs are designed. The methodology of the Bachelor of Liberal Studies and the Master of Liberal Studies is carefully presented in detail to serve as a pattern for study. Mr. Troutt forecasts the future of special degree programs and notes the importance of the programs at the State University of New York at Brockport and the Bachelor of Independent Studies Program at Brigham Young University. He lists important academic landmarks affecting future adult degree programs and publications he considers noteworthy. The appendices include lists of the courses, reading materials, the faculty of the University of Oklahoma program, selected references and a list of external and special degree programs prepared by the National University Extension Association.

Union for Experimenting Colleges and Universities. UNIVERSITY WITHOUT WALLS:A PROPOSAL FOR AN EXPERIMENTAL DEGREE PROGRAM IN UNDERGRADUATE EDUCATION. Yellow Springs, Ohio, Antioch College, April, 1970. 48 pp.

This material is the complete proposal of the Union for Experimenting Colleges and Universities.

Valley, John R. "An Inventory of External Degree Programs and Proposals," paper, EDUCATIONAL TESTING SERVICE (March 3, 1971). 33 pp.

This is an inventory of operational external degree programs including the degree that can be awarded and institutions from which it may be obtained. The name of the proposal is not always the same as the final program. This is of particular value as a cross reference to citations of programs, particularly valuable to enrich other references to programs.

Valley, John R. "A Supplement to An Inventory of External Degree Programs and Proposals," EDUCATIONAL TESTING SERVICE (May 7, 1971). 18 pp.

Updates Inventory of External Degree Programs and Proposals, using same form as first paper. Arthur D. Little Plan is described in the paper. The two Valley papers are valuable references to planned external degree programs.

Zigerell, James J. "Fifteen Years of Televising College Courses," CHRONICLE OF HIGHER EDUCATION, Vol. 6, No. 13 (January 3, 1972), p. 8. Washington, D.C. 20036.

This letter to the CHRONICLE from James Zigerell, Executive Dean, Learning Resources Laboratory and TV College, City Colleges of Chicago, discusses televised college courses offered by this educational institution over a period of time previous to the actual use of the term external degree.